

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296140

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7020.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

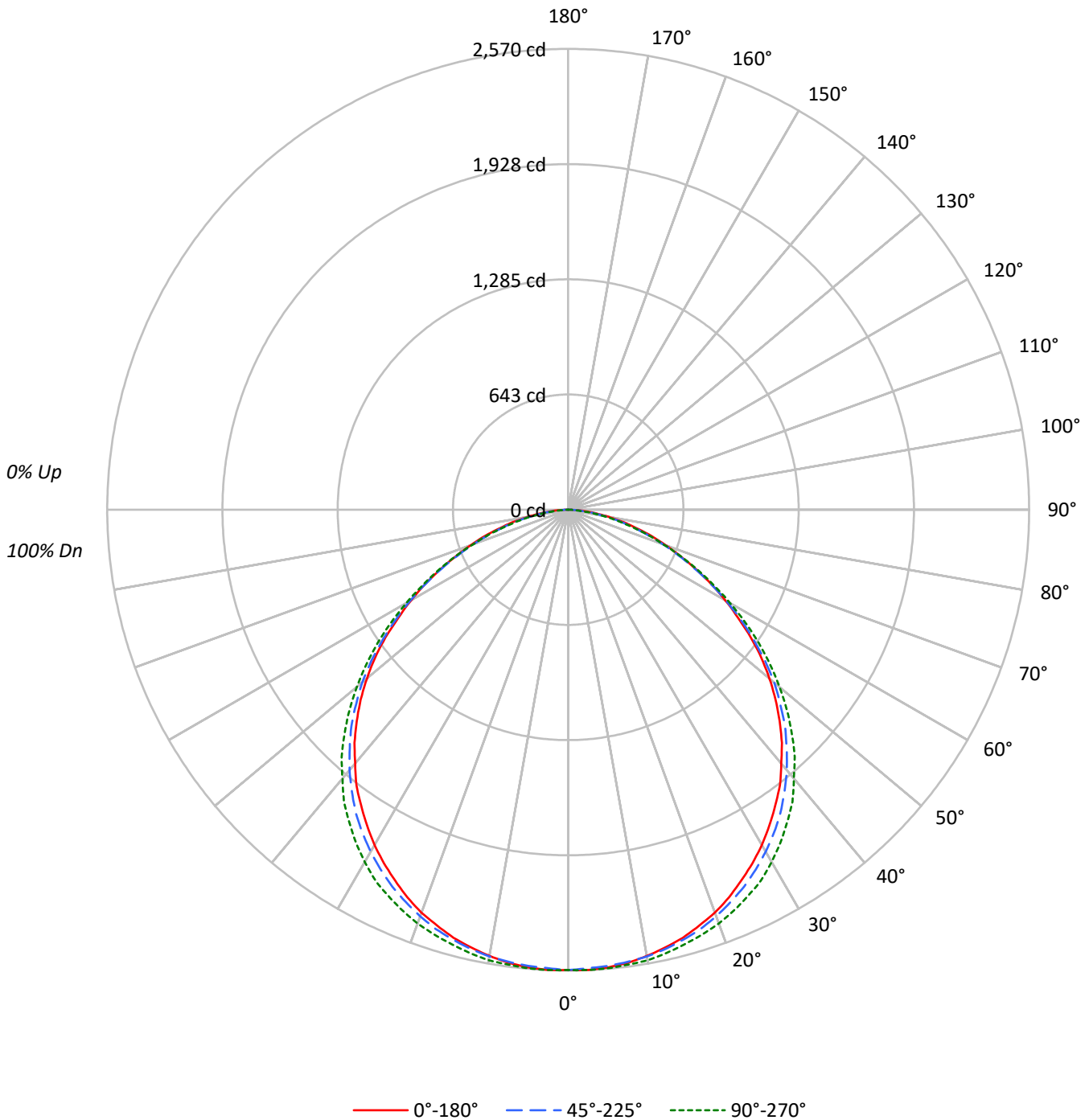
Input Watts (W): 62.124
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3454	3454	3454
5°	3460	3449	3467
10°	3453	3457	3486
15°	3443	3457	3495
20°	3424	3455	3516
25°	3388	3444	3527
30°	3356	3422	3525
35°	3307	3390	3495
40°	3246	3330	3438
45°	3172	3253	3355
50°	3066	3138	3222
55°	2917	2955	3042
60°	2723	2738	2809
65°	2501	2484	2543
70°	2273	2210	2221
75°	2021	1910	1896
80°	1754	1568	1527
85°	1439	1110	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	3.5
10°-20°	701.9	10.0
20°-30°	1071.4	15.3
30°-40°	1291.6	18.4
40°-50°	1317.2	18.8
50°-60°	1127.3	16.1
60°-70°	776.5	11.1
70°-80°	398.1	5.7
80°-90°	92.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2016.7	28.7
0°-40°	3308.4	47.1
0°-60°	5752.8	81.9
0°-90°	7020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2562	2557	2554	2562	2567	243
15°	2471	2469	2482	2501	2509	697
25°	2282	2290	2320	2360	2376	1052
35°	2013	2021	2064	2109	2128	1260
45°	1667	1670	1710	1752	1763	1284
55°	1244	1236	1260	1286	1297	1109
65°	786	767	780	786	799	781
75°	389	373	368	368	365	419
85°	93	83	72	64	56	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2567.2	2567.2	2567.2	2567.2	2567.2
2.5°	2569.9	2564.6	2559.3	2564.6	2569.9
5°	2561.9	2556.6	2553.9	2561.9	2567.2
7.5°	2548.6	2543.3	2543.3	2553.9	2559.3
10°	2527.3	2524.6	2530.0	2540.6	2551.3
12.5°	2500.7	2500.7	2508.7	2522.0	2532.6
15°	2471.4	2468.7	2482.0	2500.7	2508.7
17.5°	2431.4	2434.1	2452.7	2474.0	2484.7
20°	2391.5	2394.1	2412.8	2442.1	2455.4
22.5°	2340.9	2346.2	2367.5	2404.8	2418.1
25°	2282.3	2290.3	2319.6	2359.5	2375.5
27.5°	2223.7	2231.7	2263.6	2308.9	2330.2
30°	2159.8	2170.4	2202.4	2250.3	2269.0
32.5°	2087.9	2095.9	2135.8	2183.8	2202.4
35°	2013.3	2021.3	2063.9	2109.2	2127.8
37.5°	1938.7	1938.7	1981.4	2034.6	2053.3
40°	1848.2	1850.9	1896.1	1946.7	1957.4
42.5°	1763.0	1763.0	1802.9	1850.9	1869.5
45°	1667.1	1669.8	1709.7	1752.3	1763.0
47.5°	1568.6	1568.6	1603.2	1643.1	1653.8
50°	1464.7	1459.4	1499.3	1531.3	1539.3
52.5°	1358.2	1350.2	1382.2	1408.8	1419.4
55°	1243.7	1235.7	1259.7	1286.3	1296.9
57.5°	1123.8	1113.2	1139.8	1163.8	1169.1
60°	1012.0	996.0	1017.3	1030.6	1043.9
62.5°	900.1	881.5	897.5	905.5	916.1
65°	785.6	767.0	780.3	785.6	798.9
67.5°	676.4	663.1	665.8	673.8	679.1
70°	577.9	561.9	561.9	561.9	564.6
72.5°	487.3	463.4	460.7	463.4	463.4
75°	388.8	372.8	367.5	367.5	364.8
77.5°	311.6	290.3	287.6	282.3	277.0
80°	226.4	207.7	202.4	199.7	197.1
82.5°	157.1	141.1	135.8	130.5	122.5
85°	93.2	82.6	71.9	63.9	55.9
87.5°	34.6	32.0	26.6	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)